### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

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Ching WONG

Application No:

**NEW** 

Filed:

January 21, 2004

For:

NONVOLATILE SEMICONDUCTOR MEMORY DEVICE

INFORMATION DISCLOSURE STATEMENT (SUBMISSION CONCURRENT WITH THE FILING OF A NEW PATENT APPLICATION)

January 21, 2004

MAIL STOP NEW APPLICATION COMMISSIONER FOR PATENTS P.O. BOX 1450 Alexandria, Virginia 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

## I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

### II. COPIES

$\boxtimes$	Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publicathat portion which caused it to be listed; and (iii) all other information or that which caused it to be listed.						
	This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International						

Search Authority. If copies are needed, please contact the undersigned.

	New	U.S.	Application
Docket	No.	1768	-000001/US

Because the present application is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

# III. CONCISE EXPLANATION OF THE RELEVANCE

(check at least one box)

## a. DOCUMENTS IN THE ENGLISH LANGUAGE

The attached patents, publications, or other information in the English language do not require a statement of relevancy.

# b. DOCUMENTS NOT IN THE ENGLISH LANGUAGE

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

The publications use the technique of increasing the gate voltage by  $\Delta Vpp$ , wherein the program to be used has a constant programming pulse width in a programming algorithm for matching Vt of one state. In this case, if distribution of the Vt is required to be narrowed for the purpose of realizing high-speed flash memory of multilevel, "over-programming" is easy to occur.

A partial English translation has been provided for the Japanese Patent No. JP 11-134879.

### c. OTHER

For the Examiner's convenience, we attach hereto U.S. Patent No., which is the corresponding U.S. equivalent of . Submission of the English language equivalent(s) is deemed to satisfy the requirement for a concise explanation of relevancy.

### **FEES**

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If The Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 08-0750.

New U.S. Application Docket No. 1768-00001/US

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C

By:

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DJD:jj

Documents

Fee

Form PTO-1449  INFORMATION DISCLOSURE CITATION  IN AN APPLICATION			ATTY DOCKET NO. 1768-000001/US APPLICANT Tsuyoshi ONO, et al.		APPLICATION NO.  CONF. NO. Unknown				
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		U.S. PATENT DO	CUMENTS		<u> </u>				
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		FOREIGN PATENT	DOCUMENTS			_			
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSI	LATION		
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	JP 11-134879	5/21/1999	JAPAN	_		ABST.			
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OTHER	DOCUMENTS (Include Name of the author	(in CAPITAL LETTERS)	title of the article (when ann	opriate), title	e of the item	(book, ma	gazine.		
journal, seri	ial, symposium, catalog, etc.) date, page(s),	volume-issue number(s), pu	blisher, city and/or country w	here publish	ed.		<b></b>		
	Giovanni Campardo, et al., "40-mm2 3-V-Only 50-MHz 64-Mb 2-v/Cell CHE NOR Flash Memory", IEEE Journal Of Solid-State Circuits, Vol. 35, No. 11, November 2000								
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EXAMIN	ER	DATE CONSIDERED							
EXAMINER	t: Initial if citation considered, whether or not lude copy of this form with next communication	citation is in conformance with	th M.P.E.P. 609; Draw line thro	ugh citation i	f not in confo	ormance and	d not con-		

DJD:jj